

# Certificate of Analysis

## Analysed essential oil : Ylang Ylang Extra

Analysis date : May, 16<sup>th</sup> 2017

Batch : 088NH701

Shelf life : September 2019

### ❖ General description

Essential oil	Ylang Ylang Extra	Origin	Mayotte
Latin name	<i>Cananga odorata</i>		

### ❖ Organoleptic characteristics

Appearance	Clear and mobile liquid
Colour	Pale yellow
Odour	Characteristic

### ❖ Physico-chemical characteristics

	Results (at 20°C)	Technical specifications				
Specific gravity	0,957	0.955	<	d	<	0.976
Refractive index	1.5048	1.4980	<	IR	<	1.5060
Optical rotation	-33,10°	-40°	<	$[\alpha]^{20}_D$	<	-20°

### ❖ Volatile elucidation

GC : Perkin Elmer – Clarus 500

Column : Elite – WAX m, Ø 0.25 mm, 0.25 µm df

Injection : split

Detector : FID

Carrier gas : H<sub>2</sub>

⇒ See Chromatogram : polar column

Date : 2017-05-16

Software Version : 6.3.2.0646  
Sample Name : HE Ylang Extra 088NH701  
Instrument Name : CLARUS 500  
Rack/Vial : 0/10  
Sample Amount : 1.000000  
Cycle : 10

Date : 5/16/2017 12:21:41 PM  
Data Acquisition Time : 5/16/2017 8:13:58 AM  
Channel : B  
Operator : Clemence  
Dilution Factor : 1.000000

Result File :  
Sequence File : C:\Sequences\CPG\2017\170515.seq

## Rapport d'analyse

colonne polaire Elite WAX

pic #	Nom composant	TR [min]	Aire [%]
1	pinene<beta>	4.48	0.08
2		4.86	0.04
3	myrcene	5.88	0.05
4	limonene+buten-3-ol<3-methyl-3	6.65	0.68
5	cineole<1.8>	6.87	0.15
6	prenyl acetate	8.37	1.50
7	hexyl acetate	9.04	0.20
8		10.48	0.14
9		11.04	0.05
10		13.09	0.05
11	cresol methyl ether<p>+?	14.46	7.45
12	cubebene<alpha>	15.43	0.12
13		15.92	0.10
14		16.22	0.07
15	copaene<alpha>	16.52	0.82
16		16.71	0.04
17		18.27	0.22
18	linalool	19.03	7.10
19		19.41	0.16
20	elemene<beta>	20.00	0.21
21	caryophyllene<E>	20.18	4.86
22		20.49	0.06
23	menthyl benzoate+?	20.93	4.37
24		21.45	0.07
25		21.74	0.05
26	humulene<alpha>	22.66	1.76
27		22.78	0.11
28	muurolene<gamma>	23.57	0.98
29	germacrene D	24.17	16.21
30		24.48	0.50
31	muurolene<alpha>+benzyl acetat	24.93	14.19
32	cadinene<gamma>	25.90	0.60
33	cadinene<delta>	26.00	1.77
34	farnesene<E,E-alpha>	26.25	9.51
35	geranyl acetate	26.37	3.00
36		26.68	0.09
37		27.05	0.13
38		27.82	0.15
39		28.01	0.08
40		28.10	0.31
41	calamenene<trans>	28.35	0.12
42	geraniol	29.36	0.23
43		29.74	0.22
44		30.29	0.08
45		31.95	0.10
46		32.32	0.05
47	caryophyllene oxide	32.69	0.15
48		33.53	0.08
49		34.42	0.07
50		35.16	0.19
51		35.33	0.22
52	prenyl benzoate	35.68	1.11
53		36.00	0.12
54		36.24	0.15
55		36.40	0.07
56		36.68	0.11
57		36.92	0.14

5/16/2017 12:21:41 PM Result:

pic #	Nom composant	TR [min]	Aire [%]
58		37.44	0.10
59	cinnamyl acetate<E>	38.27	4.20
60	cadinol<epi-alpha>	38.94	0.36
61	muurolol<epi-alpha>	39.40	0.55
62		39.66	0.11
63		39.79	0.18
64	farnesyl acetate <2E,6E>	40.64	1.05
65		41.93	0.05
66		42.14	1.98
67		42.32	0.07
68		42.81	0.08
69		43.14	0.09
70		43.70	0.41
71		44.00	0.05
72	farnesol <(2E,6E)>	44.66	1.16
73		45.53	0.03
74		45.93	0.07
75		50.03	0.03
76	benzyl benzoate	50.73	5.12
77		53.22	0.03
78	benzyl salicylate	54.40	2.79
79		55.17	0.06
80		56.32	0.03
81		57.54	0.03
82		61.83	0.03
83		62.82	0.07
			100.00

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Laboratoire Rosier Davenne

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# Chromatogram

Sample Name : HE Ylang Extra 088NH701      Sample #: 088NH701      Page 1 of 1  
 FileName : C:\Data\Colonne Apolaire\Huiles Essentielles\Ylang\Ylang Extra2017\ylang extra 170515.raw  
 Date : 5/16/2017 12:21:42 PM  
 Method : ylang extra.mth      Time of Injection: 5/16/2017 8:13:58 AM  
 Start Time : 0.00 min      End Time : 82.00 min      Low Point : -47.13 mV      High Point : 993.88 mV  
 Plot Offset: -47.13 mV      Plot Scale: 1041.0 mV

